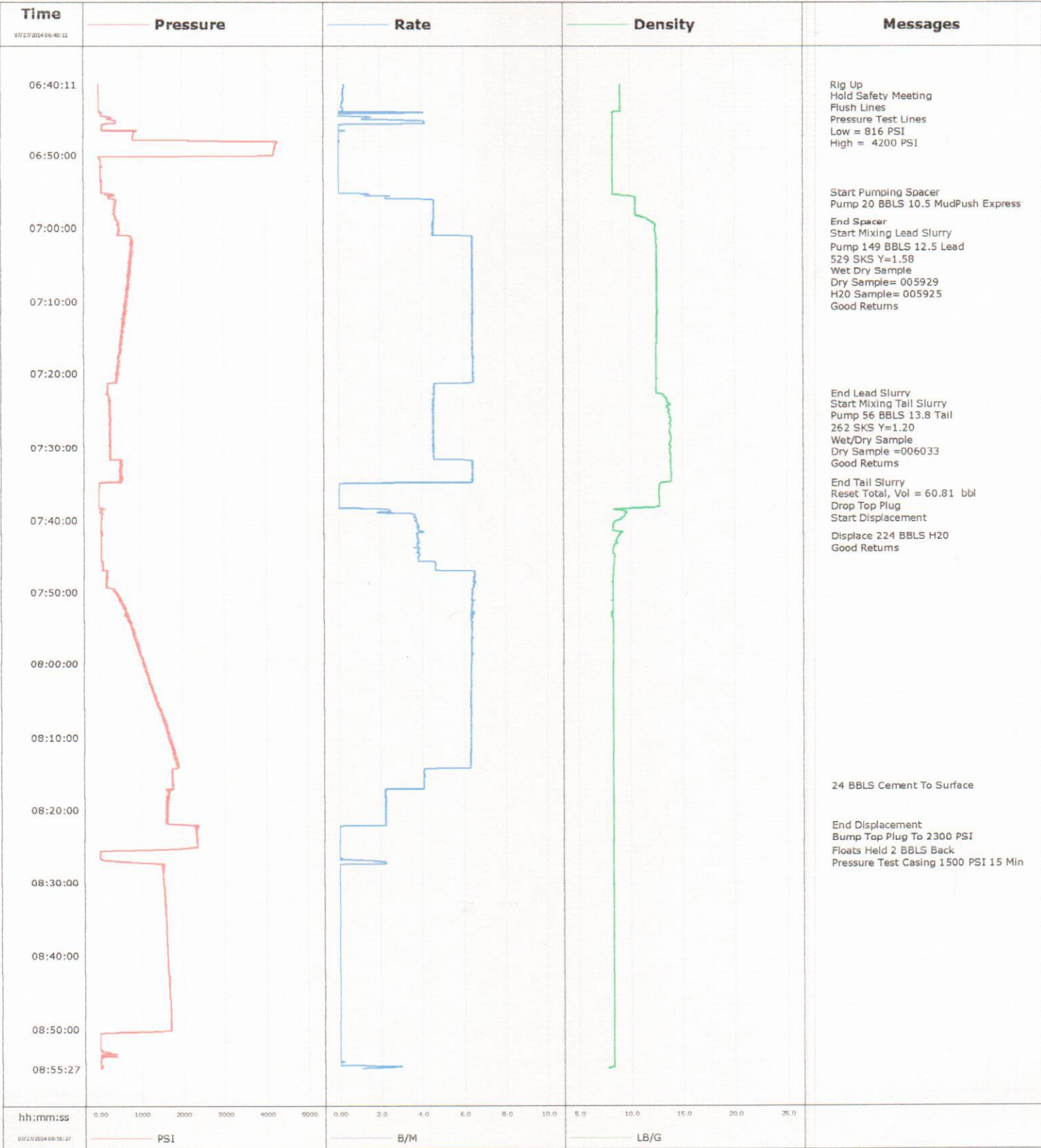




Cementing Job Report

CemCAT v1.3

Well	Horsetail 30F-3108	Client	Whiting Oil Gas
Field	Wildcat	SIR No.	
Engineer	Justin Zika	Job Type	7 IN Intermediate
Country	United States	Job Date	07-27-2014



07/27/2014 09:36:29



Cementing Service Report

				Customer Whiting Oil & Gas		Job Number 2000199									
Well Horsetail 30F-3108 30F-3108			Location (legal) Cheyenne WY		Schlumberger Location Cheyenne, WY		Job Start Jul/27/2014								
Field Wildcat		Formation Name/Type Shale		Deviation		Bit Size 8.8 in		Well MD 6079.0 ft		Well TVD 5534.0 ft					
County Weld		State/Province Colorado		BHP		BHST 165 degF		BHCT 148 degF		Pore Press. Gradient					
Well Master 631546513		API/UWI 5123391990000													
Rig Name Xtreme 18		Drilled For Oil		Service Via Land		Casing/Liner									
						Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
Offshore Zone		Well Class New		Well Type Development		6069.0		7.000		29.0		N/A		8RD	
						0.0		0.000		0.0					
Drilling Fluid Type		Max. Density		Plastic Viscosity		Tubing/Drill Pipe									
						Depth,		Size,		Weight,		Grade		Thread	
Service Line Cementing		Job Type 7 IN Intermediate													
Max. Allowed Tub. Press 5000 psi		Max. Allowed Ann. Press		WH Connection Single Cement head		Perforations/Open Hole									
						Top,		Bottom,				No. of Shots		Total Interval	
														Diameter	
						Treat Down Casing		Displacement 224.0 bbl		Packer Type		Packer Depth			
						Tubing Vol.		Casing Vol. 225.0 bbl		Annular Vol. 166.0 bbl		Openhole Vol. 397.0 bbl			
Casing/Tubing Secured		<input checked="" type="checkbox"/> 1 Hole Vol. Circulated prior to Cement		<input checked="" type="checkbox"/>		Casing Tools		Squeeze Job							
Lift Pressure 4573 psi						Shoe Type Guide		Squeeze Type							
Pipe Rotated		<input type="checkbox"/> Pipe Reciprocated		<input type="checkbox"/>		Shoe Depth 6069.0 ft		Tool Type							
No. Centralizers		Top Plugs 0		Bottom Plugs 0		Stage Tool Type		Tool Depth							
Cement Head Type Single						Stage Tool Depth		Tail Pipe Size							
Job Scheduled For Jul/27/2014 23:30		Arrived on Location Jul/27/2014 23:30		Leave Location Jul/27/2014 10:30		Collar Type Float		Tail Pipe Depth							
						Collar Depth 6069.0 ft		Sqz. Total Vol.							
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message									
07/27/2014	06:17:36					Started Acquisition									
07/27/2014	06:40:11	5	0.3	9.06	0.0										
07/27/2014	06:40:12					Rig Up									
07/27/2014	06:40:12	5	0.3	9.06	0.0										
07/27/2014	06:40:13					Hold Safety Meeting									
07/27/2014	06:40:13					Flush Lines									
07/27/2014	06:40:13	5	0.3	9.06	0.0										
07/27/2014	06:40:20					Pressure Test Lines									
07/27/2014	06:40:20	6	0.3	9.06	0.0										
07/27/2014	06:40:22					Low = 816 PSI									
07/27/2014	06:40:22					High = 4200 PSI									
07/27/2014	06:40:22	5	0.3	9.06	0.1										
07/27/2014	06:40:56	6	0.3	9.07	0.2										
07/27/2014	06:42:36	3	0.2	9.07	0.6										
07/27/2014	06:44:16	70	0.0	8.33	1.3										
07/27/2014	06:45:56	88	0.0	8.33	4.4										
07/27/2014	06:47:36	827	0.0	8.33	4.4										
07/27/2014	06:49:16	4218	0.0	8.33	4.4										
07/27/2014	06:50:56	64	0.0	8.33	4.4										
07/27/2014	06:52:36	66	0.0	8.33	4.4										
07/27/2014	06:54:16	74	0.0	8.33	4.4										

Well			Field	Job Start		Customer	Job Number
Horsefall 30F-3108 30F-3108			Wildcat	Jul/27/2014		Whiting Oil & Gas	2000199
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
07/27/2014	06:55:08	81	0.0	8.33	4.4		
07/27/2014	06:55:15					Pump 20 BBLs 10.5 MudPush Express	
07/27/2014	06:55:15	160	0.8	8.33	4.5		
07/27/2014	06:55:56	243	2.3	10.46	5.7		
07/27/2014	06:57:36	371	4.6	10.49	13.2		
07/27/2014	06:59:11					End Spacer	
07/27/2014	06:59:11	472	4.5	12.13	20.4		
07/27/2014	06:59:16	482	4.5	12.22	20.8		
07/27/2014	06:59:22					Start Mixing Lead Slurry	
07/27/2014	06:59:22	456	4.5	12.31	21.2		
07/27/2014	07:00:56	472	4.6	12.48	28.4		
07/27/2014	07:02:36					Pump 149 BBLs 12.5 Lead	
07/27/2014	07:02:36	796	6.4	12.53	38.8		
07/27/2014	07:02:37					529 SKS Y=1.58	
07/27/2014	07:02:37					Wet Dry Sample	
07/27/2014	07:02:37					Dry Sample= 005929	
07/27/2014	07:02:37					H2O Sample= 005925	
07/27/2014	07:02:37	796	6.4	12.53	39.0		
07/27/2014	07:02:38					Good Returns	
07/27/2014	07:02:38	805	6.4	12.53	39.1		
07/27/2014	07:04:16	790	6.4	12.53	49.6		
07/27/2014	07:05:56	716	6.4	12.55	60.3		
07/27/2014	07:07:36	705	6.4	12.56	70.9		
07/27/2014	07:09:16	654	6.4	12.55	81.6		
07/27/2014	07:10:56	633	6.4	12.56	92.3		
07/27/2014	07:12:36	621	6.4	12.56	103.1		
07/27/2014	07:14:16	596	6.4	12.53	113.8		
07/27/2014	07:15:56	556	6.4	12.52	124.5		
07/27/2014	07:17:36	487	6.4	12.51	135.2		
07/27/2014	07:19:16	463	6.5	12.51	146.0		
07/27/2014	07:20:56	447	6.4	12.50	156.7		
07/27/2014	07:22:36	215	4.6	12.49	165.0		
07/27/2014	07:22:43					End Lead Slurry	
07/27/2014	07:22:43	218	4.6	12.71	165.6		
07/27/2014	07:24:15					Start Mixing Tail Slurry	
07/27/2014	07:24:15	272	4.5	13.77	172.5		
07/27/2014	07:24:16	277	4.5	13.79	172.6		
07/27/2014	07:24:19					Pump 56 BBLs 13.8 Tail	
07/27/2014	07:24:19	272	4.5	13.82	172.8		
07/27/2014	07:24:20					262 SKS Y=1.20	
07/27/2014	07:24:20					Wet/Dry Sample	
07/27/2014	07:24:20					Dry Sample =006033	
07/27/2014	07:24:20	271	4.5	13.81	172.9		
07/27/2014	07:25:09					Good Returns	
07/27/2014	07:25:09	270	4.5	13.71	176.6		
07/27/2014	07:25:56	267	4.5	13.81	180.2		
07/27/2014	07:27:36	271	4.5	13.77	187.8		
07/27/2014	07:29:16	285	4.6	13.82	195.4		
07/27/2014	07:30:56	266	4.6	13.80	203.0		
07/27/2014	07:32:36	522	6.4	13.83	212.1		
07/27/2014	07:34:16	508	6.4	13.88	222.7		
07/27/2014	07:34:51					End Tail Slurry	
07/27/2014	07:34:51	70	5.6	13.27	226.5		
07/27/2014	07:34:53					Reset Total, Vol = 60.81 bbl	

Well Horsetail 30F-3108 30F-3108			Field Wildcat		Job Start Jul/27/2014		Customer Whiting Oil & Gas		Job Number 2000199	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
07/27/2014	07:34:57					Drop Top Plug				
07/27/2014	07:34:57	14	0.6	12.83	226.7					
07/27/2014	07:34:58					Start Displacement				
07/27/2014	07:34:58	10	0.3	12.82	226.7					
07/27/2014	07:35:56	11	0.0	12.76	226.7					
07/27/2014	07:37:36	10	0.0	12.77	226.7					
07/27/2014	07:39:16	82	3.6	9.52	229.0					
07/27/2014	07:40:56	68	3.8	8.34	235.2					
07/27/2014	07:42:17					Displace 224 BBLS H2O				
07/27/2014	07:42:17	72	3.8	8.86	240.4					
07/27/2014	07:42:21					Good Returns				
07/27/2014	07:42:21	71	3.8	8.81	240.7					
07/27/2014	07:42:36	67	3.8	8.69	241.6					
07/27/2014	07:44:16	66	3.8	8.32	247.9					
07/27/2014	07:45:56	96	4.6	8.40	254.5					
07/27/2014	07:47:36	201	6.5	8.33	263.3					
07/27/2014	07:49:16	196	6.5	8.32	274.2					
07/27/2014	07:50:56	506	6.4	8.32	284.8					
07/27/2014	07:52:36	646	6.4	8.32	295.5					
07/27/2014	07:54:16	760	6.4	8.32	306.1					
07/27/2014	07:55:56	827	6.4	8.32	316.7					
07/27/2014	07:57:36	932	6.4	8.32	327.3					
07/27/2014	07:59:16	1016	6.3	8.32	337.9					
07/27/2014	08:00:56	1136	6.3	8.32	348.5					
07/27/2014	08:02:36	1208	6.3	8.32	359.1					
07/27/2014	08:04:16	1323	6.3	8.32	369.7					
07/27/2014	08:05:56	1431	6.3	8.32	380.2					
07/27/2014	08:07:36	1534	6.3	8.32	390.8					
07/27/2014	08:09:16	1664	6.3	8.32	401.3					
07/27/2014	08:10:56	1705	6.3	8.32	411.8					
07/27/2014	08:12:36	1841	6.3	8.32	422.4					
07/27/2014	08:14:16	1866	6.3	8.32	432.9					
07/27/2014	08:15:56	1758	4.1	8.32	439.8					
07/27/2014	08:16:42					24 BBLS Cement To Surface				
07/27/2014	08:16:42	1757	4.1	8.32	442.9					
07/27/2014	08:17:36	1685	2.2	8.32	445.7					
07/27/2014	08:19:16	1610	2.2	8.32	449.5					
07/27/2014	08:20:56	1629	2.2	8.32	453.2					
07/27/2014	08:22:17					End Displacement				
07/27/2014	08:22:17	2362	0.2	8.32	456.1					
07/27/2014	08:22:18					Bump Top Plug To 2300 PSI				
07/27/2014	08:22:18	2290	0.1	8.32	456.1					
07/27/2014	08:22:36	2302	0.0	8.32	456.1					
07/27/2014	08:24:16	2341	0.0	8.32	456.1					
07/27/2014	08:25:48					Floats Held 2 BBLS Back				
07/27/2014	08:25:48					Pressure Test Casing 1500 PSI 15 Min				
07/27/2014	08:25:48	26	0.0	8.32	456.1					
07/27/2014	08:25:56	8	0.0	8.32	456.1					
07/27/2014	08:27:36	1511	0.3	8.32	457.2					
07/27/2014	08:29:16	1535	0.0	8.32	457.2					
07/27/2014	08:30:56	1550	0.0	8.32	457.2					
07/27/2014	08:32:36	1566	0.0	8.32	457.2					
07/27/2014	08:34:16	1581	0.0	8.32	457.2					
07/27/2014	08:35:56	1596	0.0	8.32	457.2					

Well Horsefall 30F-3108 30F-3108			Field Wildcat		Job Start Jul/27/2014		Customer Whiting Oil & Gas		Job Number 2000199	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
07/27/2014	08:39:16	1625	0.0	8.32	457.2					
07/27/2014	08:40:56	1639	0.0	8.32	457.2					
07/27/2014	08:42:36	1653	0.0	8.32	457.2					
07/27/2014	08:44:16	1666	0.0	8.32	457.2					
07/27/2014	08:45:56	1680	0.0	8.32	457.2					
07/27/2014	08:47:36	1692	0.0	8.32	457.2					
07/27/2014	08:49:16	1705	0.0	8.32	457.2					
07/27/2014	08:50:56	9	0.0	8.32	457.2					
07/27/2014	08:52:36	10	0.0	8.32	457.2					

Post Job Summary

Average Pump Rates,					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry 205.0	Mud	Spacer 20.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 4500	Final 1667	Average	Bump Plug to 2364	Breakdown	Type	Volume	Density	
Avg. N2 Percent	Designed Slurry Volume 205.0 bbl		Displacement 224.0 bbl	Mix Water Temp 56 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 24.0 bbl		
					Washed Thru Perfs <input type="checkbox"/>	To		
Customer or Authorized Representative Lewis Young			Schlumberger Supervisor Justin Zika			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
					-		-	



Service Quality Evaluation

Client:	Whiting Oil & Gas
Field:	Wildcat
Rig:	Xtreme 18
Well:	Horsetail 30F-3108
Service Line:	Cementing
Job Type:	7 IN Intermediate

Service Order #:	
Date:	Jul/27/2014
Operating Time:	0.0
Client Rep:	Whiting Oil & Gas
Schlumberger Engineer:	Justin Zika
Schlumberger FSM:	

Main Objective:

To be completed by Company Rep. Please answer Y (Yes) or N (No) and add any comments below.

		Score		Yes / No	Result
1	HSE				
1a	Free of lost time injury and compliance with SLB and loc. spec. HSE practice	5	yes	<input type="checkbox"/> no <input checked="" type="checkbox"/>	0
1b	Free of environmental spill or non-compliant discharge	5	yes	<input type="checkbox"/> no <input checked="" type="checkbox"/>	0
1c	Free of RIRs	5	yes	<input type="checkbox"/> no <input checked="" type="checkbox"/>	0
1d	Wellsite left clean	4	yes	<input type="checkbox"/> no <input checked="" type="checkbox"/>	0
Sub-total					0%
2	Design / Preparation				
2a	Program incl. job simulation (CemCADE) & pump schedule / tool hydraulic calcs	3	yes	<input type="checkbox"/> no <input checked="" type="checkbox"/>	0
2b	Equipment maintenance schedule completed / Green tagged	2	yes	<input type="checkbox"/> no <input checked="" type="checkbox"/>	0
2c	All materials and equipment required for job/contingency checked & on location	2	yes	<input type="checkbox"/> no <input checked="" type="checkbox"/>	0
2d	Safety / pre-job meeting conducted with all involved present	2	yes	<input type="checkbox"/> no <input checked="" type="checkbox"/>	0
Sub-total					0%
3	Execution				
3a	Lost time < 30 mins	3	yes	<input type="checkbox"/> no <input checked="" type="checkbox"/>	0
3b	Equipment pressure tested succesfully	3	yes	<input type="checkbox"/> no <input checked="" type="checkbox"/>	0
3c	All key parameters monitored and recorded accurately (Pressure, Rate, Density)	2	yes	<input type="checkbox"/> no <input checked="" type="checkbox"/>	0
3d	Plugs / darts released and tested succesfully	2	yes	<input type="checkbox"/> no <input checked="" type="checkbox"/>	0
3e	Density variation met expectations	2	yes	<input type="checkbox"/> no <input checked="" type="checkbox"/>	0
3f	Personnel performed as per expectations	2	yes	<input type="checkbox"/> no <input checked="" type="checkbox"/>	0
3g	Equipment performed as per expectations	2	yes	<input type="checkbox"/> no <input checked="" type="checkbox"/>	0
3h	Job pumped per design	3	yes	<input type="checkbox"/> no <input checked="" type="checkbox"/>	0
3i	Did job start on time	2	yes	<input type="checkbox"/> no <input checked="" type="checkbox"/>	0
3j	Free of Operational failures (screen out, Cementing Example, etc.)	3	yes	<input type="checkbox"/> no <input checked="" type="checkbox"/>	0
Sub-total					0%
4	Evaluation				
4a	Main job objective achieved with no consequential non-productive time	10	yes	<input type="checkbox"/> no <input checked="" type="checkbox"/>	0
Sub-total					0%
Total					0%

Comments: (Please include a brief explanation for a "NO" response and summarize any innovations attempted on this well.)

Client:	Schlumberger:
<div></div>	<div></div>
Client Signature:	Schlumberger Signature: